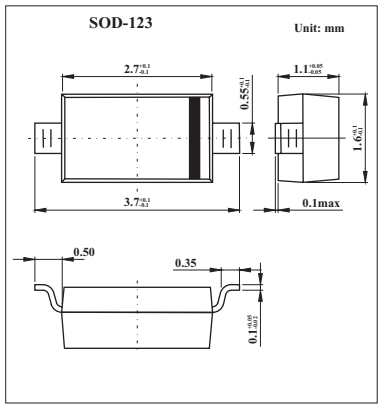
Variable Capacitance Diode for VCO

HVD380B



Features

- High capacitance ratio. (n = 1.70 min)
- Low series resistance. (rs = 0.80Ω max)
- Super small Flat Package (SFP) is suitable for surface mount design.

Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	15	V
Junction temperature	T_j	125	℃
Storage temperature	T_{stg}	-55 to +125	℃

Electrical Characteristics Ta = 25℃

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	I_{R1}	V_R = 15 V			10	nA
	I_{R2}	V_R = 15 V,Ta = 60℃			100	
Capacitance	C_1	V_R = 1 V, f = 1 MHz	0.88		3.12	pF
	C_3	V_R = 3 V, f = 1 MHz	1.66		1.795	
	C_4	V_R = 4 V, f = 1 MHz	1.7		1.471	
Capacitance ratio	n_1	C_1 / C_3	2.08		1.84	
	n_2	C_1 / C_4			2.25	
Series resistance	r_s	V_R = 1 V, f = 470 MHz			0.8	Ω

Marking

Marking	J